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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,465	08/17/2005	Reiji Hattori	Q85676	5521
23373 SUGHRUE MI	7590 06/02/200 ON. PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			SHAPIRO, LEONID	
WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2629	
			MAIL DATE	DELIVERY MODE
			06/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/520,465	HATTORI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Leonid Shapiro	2629			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>05 Ma</u>	arch 2009.				
, <u> </u>	action is non-final.				
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.					
4a) Of the above claim(s) <u>1 and 3-13</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>2 and 16</u> is/are rejected.					
7) Claim(s) <u>14 and 15</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers	·				
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>01/07/05</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	(A) □ Index 1 = 0 ===	(DTO 442)			
1)					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 2,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (6,407,763) in view of Murata (3,936,816).

As to claim 2, Yamaguchi et al. teaches an image display device (col. 1, lines 8-13) which comprises an image display panel, in which the liquid powders, are sealed between opposed two substrates, at least one of two substrates being transparent, and, in which the liquid powders, to which an electrostatic field produced by a pair of electrodes provided on one substrate or both substrates respectively is applied, are made to move so as to display an image (fig. 30, col. 2, lines 17-50), wherein a chip for transmitting a drive signal to the image display panel is arranged in the substrates (in reference is equivalent to line side and row side) (col. 21, lines 29-39).

Yamaguchi et al. does not disclose an aerosol state such that solid-like substances are suspended in a gas stably as dispersoid.

Murata teaches dispersoid (fig. 3, item 26, from col. 3, line 65 to col. 4, line 3).

It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate teachings of Murata into Yamaguchi system in order to permit versatile display (col. 1, lines 5-7 in the Murata reference).

As to claim 16, Yamaguchi et al. teaches an average particle diameter d(0.5) of the liquid powders is 0.1 - 20 gm. (col. 4, lines 43-48).

Allowable Subject Matter

2. Claims 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Relative to claim 14 the major difference between the teaching of the prior art of record (Yamaguchi et al. and Murata) and the instant invention is that an apparent volume in a maximum floating state of the liquid powders is two times or more than that in none floating state.

Relative to claim 15 the major difference between the teaching of the prior art of record (Yamaguchi et al. and Murata) and the instant invention is that a time change of the apparent volume of the liquid powders satisfies the following formula:

Vlo/V5 > 0.8;

here, V5 indicates the apparent volume (cm³⁾ of the liquid powders afLer 5 minutes from the maximum floating state; and V10 indicates the apparent volume (cm³⁾ of the liquid powders after 10 minutes from the maximum floating state.

Response to Arguments

3. Applicant's arguments filed 03/05/09 have been fully considered but they are not persuasive:

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On page 8, 1st paragraph of Remark, Applicant's stated that Claim 2 recites that "a chip for transmitting a drive signal to the image display panel is arranged in the substrate." Yamaguchi does not disclose or fairly suggest at least this feature of the invention recited in claim 2. However, Yamaguchi et al. teaches a chips for transmitting a drive signal to the image display panel is arranged in the substrates (in reference is equivalent to line side and row side) (col. 21, lines 29-39).

On page 9, 2nd paragraph of Remark, Applicant's stated that Murata mentions that a material may be a dispersoid, but it does not teach or suggest an aerosol state as required by claim 2. However, Murata teaches dispersoid (fig. 3, item 26, from col. 3, line 65 to col. 4, line 3).

On page 9, 3rd paragraph of Remark, Applicant's stated that any combination based on hypothetical advantages would employ impermissible hindsight. However, In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Conclusion

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Telephone inquire

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid Shapiro whose telephone number is 571-272-7683. The examiner can normally be reached on 8 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

05/28/09 /L. S./ Examiner, Art Unit 2629

/Richard Hjerpe/ Supervisory Patent Examiner, Art Unit 2629